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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 9500100.APP 1509 09/782,534 02/13/2001 Andrew H. Cragg **EXAMINER** 11/09/2005 20995 7590 KNOBBE MARTENS OLSON & BEAR LLP ALI, SHUMAYA B 2040 MAIN STREET ART UNIT PAPER NUMBER

> 3743 DATE MAILED: 11/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
Office Action Summary	09/782,534	CRAGG ET AL.
	Examiner	Art Unit
	Shumaya B. Ali	3743
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D) (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 25 Ju	<u>ıly 2005</u> .	
a) ☐ This action is FINAL . 2b) ☑ This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4)⊠ Claim(s) <u>1-5,48 and 49</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-5,48 and 49</u> is/are rejected.		
7) Claim(s) is/are objected to.		•
8) Claim(s) are subject to restriction and/o	r election requirement.	•
Application Papers		
9) ☐ The specification is objected to by the Examine	er.	
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by the	Examiner.
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correct		
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this National Stage		
application from the International Bureau	•	.
* See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	ed.
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail D 5) Notice of Informal F	ate Patent Application (PTO-152)
Paper No(s)/Mail Date	6) 🖾 Other: <u>detailed acti</u>	

Application/Control Number: 09/782,534 Page 2

Art Unit: 3743

DETAILED ACTION

Response to Arguments

- 1. In response to applicant's arguments, the recitation "for cutting material inside an intervertebral spine disc" on page 11 has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).
- 2. Applicant's request for reconsideration of the finality of the rejection of the last

 Office action is persuasive and, therefore, the finality of that action is withdrawn.
- 3. Applicant's arguments with respect to claims 1-5, and 48-49 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 09/782,534 Page 3

Art Unit: 3743

2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 1-5 and .48-49 are rejected under 35 U.S.C. 1O3(a) as being unpatentable over Reiley et al. US Patent No. 6,440,138 B1 in view of McFarlane Us Patent No. 4,046,144.
- 5. **Regarding claim 1**, Reiley et al. discloses an apparatus fully capable of cutting material inside an intervertebral spinal disc, the intervertebral spinal disc having a disc body formed of a nucleus and, annulus, the apparatus comprising:
- a. An elongated discectomy instrument (such as 22, 110, etc. and their respective associated components) having a discectomy instrument body extending between a discectomy instrument proximal end and instrument distal end, a cutting head (such as 22, 110, etc.) Located in a distal

portion of the discectomy instrument, the instrument body and cutting head dimensioned to fit

Page 4

within and to extend through the axial bore; and

b. An anterior tract sheath having a shaped distal end fully capable of engaging an anterior

surface of the sacral vertebral body;

c. Wherein the shaped distal end of the anterior tract sheath is fully capable of facilitating the

anchoring of the anterior tract sheath onto the anterior surface of the sacral vertebral body from a

para coccygeal skin access point.

claimed in a bore made in any orientation.

Regarding the phrase, "through a trans-sacral axial bore extending cephalad and axially from a sacral position of a sacral vertebral body through one or more vertebral body and through, a vertebral body endplate and axial disc opening into the nucleus of the intervertebral spinal disc", this functional language does not hold patentable weight in an apparatus claim. Thus, given the structure of Reiley et al. the device is fully capable of performing the function as

Reiley et al. discloses the apparatus comprising all the limitations recited in claim 1, with the exception of a beveled distal end of the anterior tract sheath. However, the use of bevelededge sheath was known at the time the invention was made. Specifically, McFarlane teaches the use of beveled end 53 at the distal end of the tubular body 22 for easing the tubular body in entering on venipuncture (col.3 lines 68-69 and col.4 lines 1) or the body of the patient.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the distal end of the anterior tract sheath of Reiley et al. by altering it to have a beveled shape because it is well known in the art, as taught by McFarlane, to aid the insertion of discectomy instrument into the body of a patient.

Application/Control Number: 09/782,534

Art Unit: 3743

6. **Regarding claim 2**, Reiley et al. discloses that as applied to claim 1, as well as, aspiration means for aspirating the disc cavity or disc space, as recited in column 7, lines 10-25, for example.

Page 5

- 7. **Regarding claim 3**, Reiley et al. discloses that as applied to claim 1, as well as, a cutting head having a fragmenting element for fragmenting the nucleus or annulus into fragments, as recited in columns, 1-7.
- 8. **Regarding claim 4**, Reiley et al. discloses that as applied to claim 3, as well as aspiration means for aspirating nucleus or annulus fragments from the disc cavity or disc space, as recited in column 7, lines 10-25, for example.
- 9. **Regarding claim 5**, Reiley et al. discloses that as applied to claim 3, as well as, irrigation means for delivering irrigation fluid into the disc cavity or disc space', and aspiration means for aspirating the nucleus fragments and irrigation fluid from the disc cavity or disc space, as recited in column 7, lines 10-25, for example.
- 10. **Regarding claim 48**, Reiley et al. discloses that as applied to claim 1, as well as, means for accessing (via 34 and 12) a sacral position of a sacral vertebral body', and means operable from the accessed sacral position for boring a trans-sacral axial bore cephalad and axially through a series of adjacent vertebral bodies and any intervening spinal discs, as recited in columns 2-7. Father, Applicant is reminded that functional language does not hold patentable weight in an apparatus claim. Further, the apparatus of Reiley et al. is fully capable of performing the function as claimed.
- 11. **Regarding claim 49**, Reiley et al. discloses that as applied to claim 1, as well as, means for accessing an anterior surface of the sacral vertebral body (via 34 and 12). and means operable

Application/Control Number: 09/782,534 Page 6

Art Unit: 3743

from the accessed anterior surface for boring a trans-sacral axial bore cephalad and axially through the vertebral bodies of a series of adjacent vertebral bodies and any intervening spinal discs and into or through the selected spinal disc providing at least a caudal axial disc opening into the nucleus of the selected spinal disc, as recited in columns 2-7. Further, Applicant is reminded that functional language does not hold patentable weight in an apparatus claim.

Further, the apparatus of Reiley et al. is fully capable of performing the function as claimed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shumaya B. Ali whose telephone number is 571-272-6088. The examiner can normally be reached on M-F 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennett can be reached on 571-272-4791. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 3743

Page 7

Tamiffed US At Unit 3748

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Bonnett

Supply Perient Examiner